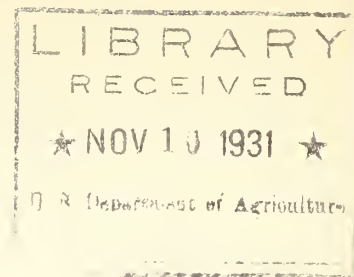


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SPECIFICATIONS FOR CONNECTING BRIDGE
TO BE ERECTED BETWEEN MAIN BUILDING AND ANNEX

of

WEATHER BUREAU, WASHINGTON, D. C.

for

U. S. DEPARTMENT OF AGRICULTURE

WEATHER BUREAU

WASHINGTON, D. C.

GENERAL CONDITIONS

1. **STANDARD FORMS:** The following standard forms accompany these specifications and are a part thereof:

Standard Form No. 20, Standard Government Form of Invitation for Bids (Construction Contract).

Standard Form No. 21, Standard Government Form of Bid (Construction Contract).

Standard Form No. 22, Standard Government Instructions to Bidders (Construction and Supplies).

Standard Form No. 23, Standard Government Form of Contract (Construction).

Bidders must follow strictly the Instructions given in Standard Form No. 22 and agree to and comply with the provisions of the several articles set forth in Standard Form No. 23. Although the several articles of Standard Form No. 23 form a part of these specifications, bidders will not fill out the contract at the present time. The successful bidder, however, will later be required to execute such contract. (See Standard Form No. 20).

2. **FEDERAL SPECIFICATIONS:** Federal specifications, or Government master specifications, including revision and addenda in effect on the date of issue of these specifications, must be used when applicable in connection with all materials and supplies to be furnished under the bid. Federal specifications may be secured from the Superintendent of Documents, Government Printing Office, Washington, D. C.

3. **TRADE NAME:** Whenever materials or articles are designated in these specifications by trade names, it will be understood that similar materials or articles may be substituted therefor if equal in quality and workmanship.

4. **"OWNER" AND "GOVERNMENT":** Whenever the words "owner" or "Government" are used in these specifications, they shall be understood to mean the "Secretary of the Department of Agriculture".

5. **EXPLANATIONS TO BIDDERS:** No oral interpretation will be made to bidders as to meaning of drawings and specifications. Requests for such interpretations should be made in writing addressed to the Chief U. S. Weather Bureau, Washington, D. C. Any interpretations made to bidders will be in the form of an addendum to the specifications which, if issued, will be sent to all bidders.

6. **VISIT TO SITE:** Bidders should fully inform themselves as to the location of the site and as to the conditions under which the work is to be done. Failure to take this precaution will not relieve the successful bidder from furnishing all material and labor necessary to complete the contract without additional cost to the Government. (See Paragraph 19, Standard Government Instructions to Bidders, Form No. 22).

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7. RATE OF WAGE: The following paragraph pertaining to the rate of wage shall apply:

The rate of wage for all laborers and mechanics employed by the Contractor, or any subcontractor, on the public project covered by these specifications shall be not less than the prevailing rate of wages for work of a similar nature in the District of Columbia. In case any dispute arises as to what are the prevailing rates of wages for work of a similar nature applicable to the contract which can not be adjusted by the contracting officer, the matter shall be referred to the Secretary of Labor for determination and his decision thereon shall be conclusive on all parties to the contract, as provided in the Act of March 3, 1931 (Public No. 798).

8. PERMITS: The Contractor shall, without additional expense to the Government, obtain all required licenses, permits, etc. (See also Article 10, Standard Government Form of Contract, Form No. 23).

9. PREFERENCE FOR DOMESTIC ARTICLES OR MATERIALS: Preference will be given to articles or materials of domestic production, conditions of quality and price, including duty, being equal.

10. PATENTS: (See Paragraph 25, Standard Government Instructions to Bidders, Form No. 22).

11. DRAWINGS AND SPECIFICATIONS: The drawings and specifications are intended to be cooperative and work or materials called for by the drawings and not mentioned in the specifications, or vice versa, shall be furnished or performed in as faithful and thorough a manner as though fully covered by both. The drawings shall be accurately followed, preference being given to figured dimensions over scale and to large scale dimensions over small. In case of a discrepancy in the plans or specifications, or between the plans and specifications, the matter shall be referred to the Chief U. S. Weather Bureau, Washington, D. C., for correction and decision before any work is done.

The interpretation of the intent of the plans and specifications shall rest solely with the Weather Bureau whose decision shall be final.

Where on any drawings a portion of the work is drawn out and the remainder is indicated in outline, the drawn-out parts shall apply also to all other like portions of the work. Where ornament or other detail is indicated by starting only, such details shall be continued throughout the courses or parts in which it occurs and shall also apply to all other similar parts in the work unless otherwise indicated.

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12. CORRECTION OF DEFECTS: If the Contractor fails to proceed at once with the correction of rejected defective material and workmanship in accordance with the provisions of Article 6 of Standard Government Form of Contract (Construction), the Government may, by contract or otherwise, have the defects remedied or changes made and charge the cost of the same against any moneys which may be due the Contractor.

13. CLIMATIC CONDITIONS: The contractor shall protect the brick work from damage by freezing weather, or other climatic conditions when necessary during construction.

14. LAWS AND ORDINANCES: The bidder will be responsible for each and every violation of any and all laws, ordinances, rules and regulations, insofar as they relate to any portion of the work contemplated in these specifications.

15. SUB-CONTRACTORS: Unless otherwise specifically stated, the bidder will be free to select sub-contractors for the work, but in all cases the sub-contractors must be capable of performing in a satisfactory manner all work undertaken by them. The bidder shall furnish the Chief U. S. Weather Bureau, Washington, D. C., with a list giving the names and addresses of all sub-contractors.

16. CHECKS: All checks in connection with making deposits required to insure the return of plans, or certified checks to guarantee the execution of contract and bond, will be drawn in favor of the Disbursing Clerk, Department of Agriculture.

17. IMPORTANT: Bidder must state number of Calendar days within which the work will be completed.

18. STATEMENT: Bidder must furnish statement as to his experience and financial responsibility.

SPECIFICATIONS FOR CONNECTING BRIDGE FOR THE WEATHER BUREAU.

1. General - Erect a covered footbridge between the first floor of the main building and the second floor of the annex, consisting of a frame structure covered with sheet metal and supported on two steel I-beams as hereinafter specified and in accordance with the attached drawing. Change the location of one window in the front wall of the annex, by removing the frame from its present position and installing in the opening now used as a door immediately to the east. Brick up opening below window in its new location and reset stone sill. Wall defaced by construction work to be neatly finished to conform with the present general appearance.

The contractor shall furnish all material, labor, transportation, scaffolding, etc., of every description required for the full performance of the work. The contractor will not, however, furnish or install the interior trim, wall board, finish floor, or steps at the ends of the bridge, or be required to do any painting.

Material shall include all lumber, steel beams, bearing plates, angles, tie rod, building felt, brick, mortar, steel siding, cornice, roofing tin, and guttering.

2. Girders - Shall be standard 8" - 18 lb. steel beams of I-section, 12 feet long, with holes drilled for securing 3" by 4" wooden wall plate to the top flange and for 3/4" tie rod as shown on the drawing. Girders shall rest on 1/2" by 8" steel or iron plates set in mortar in the brick walls with the outer edges flush with the wall. Girders shall be set exactly 2" below the top of annex floor, that is - 2" from top of floor to bottom of girder.

3. Lumber - All lumber shall be No. 1 common long leaf yellow pine, Douglas fir, or equal. Unless otherwise stated, commercial sizes are given - actual cross sections being somewhat smaller.

Floor joists to be 2" by 8", spaced 16" on centers between the webs of the girders and resting on the inner bottom flanges. Floor joists must be sized to a uniform height, - approximately 7 1/2" - neatly cut to fit, and have a row of double cross bridging of 1" by 3" pieces of sound wood, cut to fit, and securely nailed before the floor is laid. Joists shall be covered by a sub-floor of 1" by 6" No. 1 common T. and G. sheathing laid diagonally; nailing blocks 2" by 4" being provided between the joists for supporting the ends.

Studding to be 2" by 4" spaced 16" on centers on 3" by 4" plate at bottom, secured to I-beam by four 3/8" by 2 1/2" lag screws. Double 2" by 4" plate at top of studs let 4" into the brick walls at the ends. Studding to be covered by 1" by 6" No. 1 common T. and G. sheathing. Outside face of sheathing to be flush with outer edge of I-beams; 3" by 4" plate and studs being placed to permit this.



Ceiling joists and roof rafters to be 2" by 4" spaced 16" on centers. Roof rafters to have a slope of approximately four inches in the width of the bridge and shall be covered with 1" by 6" No. 1 common T. and G. sheathing.

There shall be placed between the end studs and the brick walls a layer of heavy builder's felt, also between the end ceiling joists and the brick walls, to exclude cold air at these points.

A double hung window having check rail sash 1 3/8" thick with glass 26" wide by 24" high shall be placed in the center of the east wall of the bridge as shown on the drawing. Window frame shall be select Douglas fir, white pine, or cypress with 1 1/4" by 4" outside trim, complete with pulleys, drip cap, etc. Sash to be white pine, glazed with clear D S glass, hung with proper weights provided with a suitable sash lock and the lower sash provided with two flush sash lifts.

4. Metal work - Entire bridge structure shall be covered with sheet metal. The lower portion from the 3" by 4" plate down, including the underside of the bridge, shall be covered with plain No. 26 gage galvanized steel. The walls shall be covered with 8' lengths of No. 26 gage galvanized steel siding as shown on the drawing. The fold along one edge of each sheet shall be formed by machine in the shop before the sheets are delivered to the job. Steel siding shall be installed as shown on the drawing, 1" galvanized roofing nails being used to hold the metal to the sheathing.

The roof shall be covered with I C grade roofing tin laid with flat seams. Cleats folded into the seams and spaced not more than 12 inches apart shall be used to hold the metal roofing to the sheathing. Cleats shall be nailed with two 1" barbed tinued or galvanized roofing nails in such a manner that the end of the cleat may be bent to cover the nail heads. Where the bridge roof meets the side walls of the buildings the tin shall be turned up and properly flashed. Flash over edge of roof sheathing on gutter side of bridge before putting on roofing tin as shown on the drawing.

An O. G. box eave trough approximately 4" by 5" of No. 26 gage galvanized steel shall be installed on the west side of the bridge, having a 2" No. 26 gage conductor pipe extending down to the pavement on the annex wall with a 90 degree elbow at the bottom. The cornice on the east side shall be of No. 26 gage galvanized steel and made to harmonize with the gutter. Upper edge of cornice shall extend up and behind overhang of roofing tin.

The steel siding shall be returned at least one-half inch on the brick walls and window trim and nailed with 1" barbed tinued or galvanized nails, spaced approximately four or five inches apart. The return on the brick walls shall be nailed at the mortar joints in the brick; these nails shall not, however, be relied upon to hold the metal in place, that is - the weight of the siding must be carried by the sheathing on the bridge.

The entire metal covering must be made water-tight, either by proper lapping, folding or soldering. All vertical joints in the plain siding shall be soldered, and at such other points as may be required.

The Government reserves the right to enter upon the job to install a 1 1/4" conduit along the outside of one of the I-beams - which shall be covered by the metal siding - after the beams have been placed and before the pockets in the walls have been bricked up.

